Abstract

This prototype is a wireless sensor network developed using ZigBee for tracking Individual
(Travellers, Mountaineers, Soldiers, Enthusiasts, etc.). Sometimes Mountaineers, wildlife travellers put themselves in extreme situation where they get lost and mountaineer get trapped in avalanches their position is unknown and put their life in risk. The individual will be given mobile sensor unit that includes a GPS unit, a Microcontroller, Temperature, Heartbeat and Stress sensors, Transmitting antenna and a battery. Upon request or in real time, the sensor unit will transmits its UID number, GPS location, Health parameters status and time. The base station will receive this information and will display Location, Health status and time on Google map on monitor screen. The developed system can be used to track specific person as they will be given UID. Alternatively, any individual can request emergency help any time using the same system as it will be provided with panic button option in case of emergency. The location of the individual needing help will be identified on the map to make it easy for the help to reach in the most efficient way.

References


Index Terms

Computer Science

Information Systems
Keywords
Zigbee  Gps  Heartbeat Sensor  Stress Sensor  Temperature Sensor  Location  Tracking Device.